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Mar 22, 1994

DERWENT-ACC-NO: 1994-131974

DERWENT-WEEK: 199416

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TITLE: New antioxidant useful for pharmaceuticals, cosmetics, etc. - prep'd. by culturing soy bean with Bacillus natto, extracting with solvent, fractionating, lyophilising etc.

PATENT-ASSIGNEE:

ASSIGNEE	CODE
KYODO NYUGYO KK	KYOD

PRIORITY-DATA: 1991JP-0266935 (September 19, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 06080579 A	March 22, 1994		010	A61K035/78

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP06080579A	September 19, 1991	1991JP-0266935	

INT-CL (IPC): A61K 35/78; C12P 1/04; C12P 1/04; C12R 1/07

ABSTRACTED-PUB-NO: JP06080579A

BASIC-ABSTRACT:

New antioxidant material from soybean culture is prep'd. by: (1) culturing soybean with Bacillus natto at 45 deg.C. for 24 hrs.; (2) extracting with methanol, ethanol, acetone, hexane, ethyl acetate or n-butanol, then conc.; (3) suspending in 0.1N-HCl (pH 3.5) and stirred with addition of n-butanol or hexane, followed by complete removal of the solvent used under reduced pressure; (4) suspending in 0.1N-NaOH (pH 8.5) and washing with ether or hexane, followed by extn. with ether or hexane at pH 3.5 and concn.; (5) fractionating in order by (1) hydrophilic ODS batch, (ii) HPLC (NH₂ column) and (iii) HPLC (ODS column), followed by lyophilisation.

USE/ADVANTAGE - The antioxidant significantly inhibited croton oil induced rat paw edema. And it is also useful as pharmaceuticals, functional foods. toiletries, cosmetics, etc..

CHOSEN-DRAWING: Dwg.0/8

TITLE-TERMS: NEW ANTIOXIDANT USEFUL PHARMACEUTICAL COSMETIC PREPARATION CULTURE SOY BEAN BACILLUS NATTO EXTRACT SOLVENT FRACTIONATE LYOPHILISE

DERWENT-CLASS: B04 B07 D13 D16 D21

CPI-CODES: B04-A10G; B14-R01; B14-S08; D03-H01; D05-H08; D08-B;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code

M423 M710 M781 M903 Q233 Q254 Q624 V400 V404

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-060996